## BEICMPNIVII (Rev) 27/5/13 System security

## Con. 9376-13.

GS-5752

## (REVISED COURSE)

(3 Hours) [ To	otal	Marks	•	10
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N.E	3.	<ol> <li>Question No. 1 is compulsory.</li> <li>Attempt any four questions from remaining six questions.</li> <li>Assume suitable data if required.</li> </ol>	
1.	(b) (c)	Explain different Birthday problems. What are the key principles of security? Compare and contrast SHA-T and MD-5 Explain the Honey Pots.	5 5 5
2.		How flaw in TCP/IP can cause operating systems to become Vulnerable? Also Explain how Kerberos are used for user authentication in windows. For the given values $p = 19$ , $q = 23$ and $e = 3$ find $n$ , $\phi(n)$ and d using RSA algorithm.	
3.	` '	What is Buffer overflow and Incomplete mediation in Software Security? Explain one-time initialization process and processes in each round of Advanced Encryption Standard.	10 10
4.		What is a denial of service attack? What are the way in which an attacker can mount a DOS attack on the system?  Compare Packet Sniffing and Packet Spoofing. Explain the session hijacking attack.	
5.	` '	Explain Multiple level Security Model. Also explain Multilateral Security. What is Malware? Explain Salami and Linearization attacks.	10 10
6.	` '	Explain software Reverse Engineering. Also Explain Digital Rights Management. Describe the different types of IDS and their limitations.	10 10
7.	Wr	ite short notes on (any <b>four</b> ):—  (a) CAPTCHA  (b) Access Control Matrix	20

(c) Covert Channel

(d) Firewall

(e) RC4.